

Implementation of the Emergency Management Program at the East Tennessee Technology Park

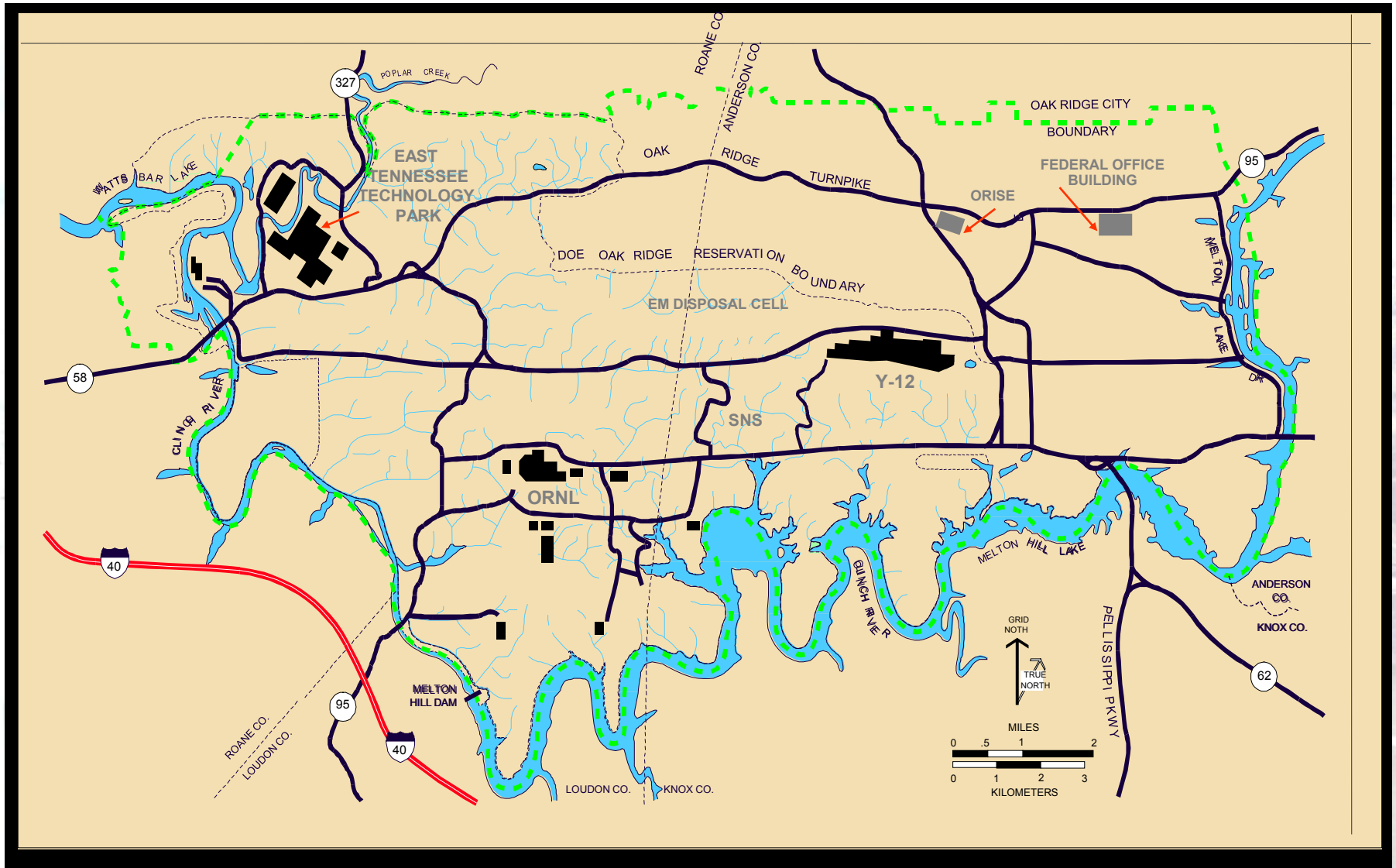
Kim Shunk, Manager
URS | CH2M Oak Ridge LLC
ETTP Emergency Services
September 2011



Prepared for the
U.S. Department of Energy
Office of Environmental Management

URS | CH2M Oak Ridge LLC
managing the
Environmental Management Activities at the
East Tennessee Technology Park
Y-12 National Security Complex Oak Ridge National Laboratory
under contract DE-SC-0004645
for the
U.S. DEPARTMENT OF ENERGY

Oak Ridge Reservation



ETTP - Site Mission

- Ongoing cleanup including demolition of buildings and site remediation
- Waste management activities



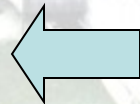
Support



Continued transition of facilities and land

Commercial use by current site tenants

Additional tenants in the future



Composition of the Site Work Force

- Site population consists of:
 - DOE personnel
 - DOE contractor personnel
 - Private tenants
 - City of Oak Ridge
- Facilities include:
 - DOE-owned facilities
 - DOE leased facilities/land
 - Facilities transferred ownership to:
 - Community Reuse Organization of East Tennessee
 - City of Oak Ridge
 - Private companies
 - Newly constructed spec buildings



A sample of organizations represented on site

Site Cleanup Activities



K-1401

K-29



K-1420

Lab Area



K-25 Building Demolition



- The K-25 Building was constructed in 1943-1945
- Covered 1,640,000 ft²
- Primary operations were discontinued in 1963
- West Wing demolition completed March 2010; East Wing demolition started in July 2011

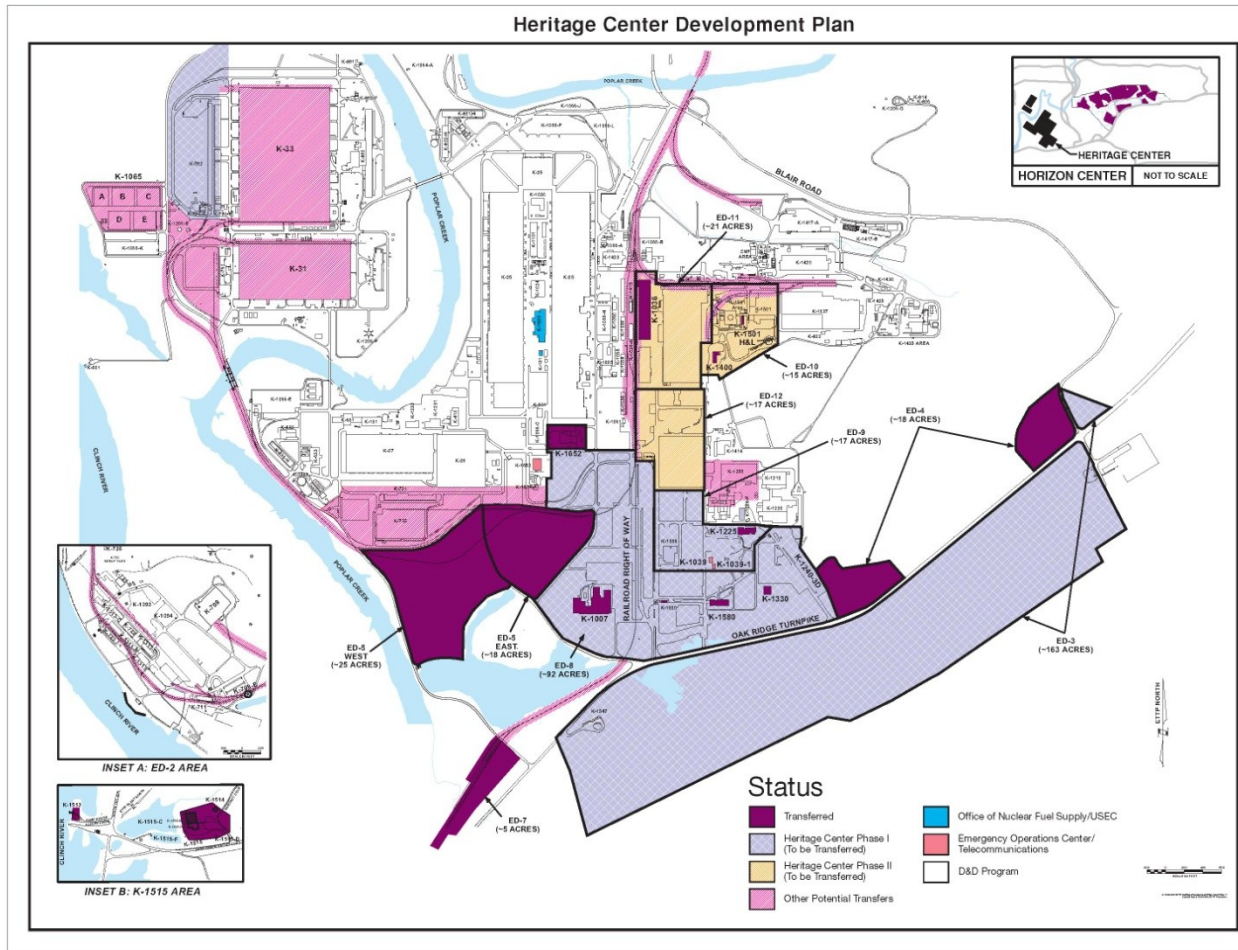


TSCAI Incinerator Closure

- The Toxic Substances Control Act (TSCA) Incinerator was shut down in December 2009
- The incinerator is undergoing RCRA closure activities
- Facility will be placed in Surveillance and Maintenance for later demolition



Site Transition



Fire Dept Operated by City of Oak Ridge

- Site Fire Department transitioned to City of Oak Ridge in Oct 2007
- Services provided via MOA between City of Oak Ridge & DOE
- Fire services include:
 - Fire suppression
 - Hazardous Materials response
 - Emergency Medical response/transport
 - Collapsed building/rescue response
- Fire Department has been integrated into ETTP's emergency drill and exercise program & tested under actual emergency conditions



Emergency Management Challenges

- Constantly changing conditions
- New hazards introduced or eliminated
- Organizational changes as discrete tasks are completed
- Changes associated with site transition
- Incorporation of site tenants into the site emergency management program
- Changes require frequent reviews and revisions to site Emergency Plans and Procedures

Changes in Site Hazards

- As site cleanup continues, hazards from DOE facilities that could be involved in a release are constantly changing:
 - Residual hazardous materials are being reduced as buildings are demolished
 - Hazardous waste is being shipped offsite
- Some private tenant operations include inventories of hazardous materials



Major Types of Hazardous Materials On-Site

Chemical	Radioactive
Uranium Hexafluoride (UF ₆)	UF ₆
Uranium (residuals)	Uranium (residuals)
Depleted uranium	Depleted uranium
Mixed Waste Materials	Mixed Waste Materials
Nickel	
Sodium	
Potassium Hydroxide	
Sodium Hydroxide	
Anhydrous ammonia	